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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/731,683	12/08/2003 Art Bertolero 021063-000510US		3268	
	7590 03/14/200 ND TOWNSEND AN	EXAMINER		
TWO EMBARO	CADERO CENTER	HOPKINS, CHRISTINE D		
EIGHTH FLOO SAN FRANCIS	OR CO, CA 94111-3834	ART UNIT	PAPER NUMBER	
			3735	· · · · · · · · · · · · · · · · · · ·
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/14/2007	PAPER	

# Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)				
	10/731,683	BERTOLERO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Christine D. Hopkins	3735				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 07 Fe	bruary 2007.					
,	action is non-final.					
3) Since this application is in condition for allowan	ice except for formal matters, pro	secution as to the merits is				
closed in accordance with the practice under E						
Disposition of Claims		·				
4)⊠ Claim(s) <u>20-61</u> is/are pending in the application	· •					
4a) Of the above claim(s) <u>24-29,35,36,46-52 and 18-29.35.36.46-52 and 18-29.35.46.46-52 and 18-29.35.46.46-52 and 18-29.35.46.46-52</u>		onsideration				
5) Claim(s) is/are allowed.	a or or	onolder diteri.				
6)⊠ Claim(s) <u>20-23,30-34,37-45 and 53-56</u> is/are re	piected					
7) Claim(s) is/are objected to.	Joolea.					
8) Claim(s) are subject to restriction and/or	election requirement					
	- Clocker requirement.					
Application Papers		•				
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the f	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f): a) All b) Some * c) None of:						
1. Certified copies of the priority documents		an Na				
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
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Attach manufa)						
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		Patent Application (PTO-152)				
Paper No(s)/Mail Date <u>2 Aug 04</u> . 6)						

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#### **DETAILED ACTION**

#### Election/Restrictions

1. Claims 1-19 have been cancelled. Claims 24-29, 35-36, 46-52 and 57-61 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention. Election was made **without** traverse in the reply filed on 7 February 2007.

### Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 20-23, 30-34, 37, 39-43, 45, 53-54 and 56 are rejected under 35 U.S.C. 102(e) as being anticipated by Paolitto et al. (U.S. Pub. No. 2003/0010346). Paolitto et al. (hereinafter Paolitto) teach a surgical apparatus and procedure for performing surgery on a beating heart via percutaneous approach. Regarding claims 20-23, 30-31, 40-43, 45, 53-54 and 56, Paolitto discloses a heart stabilizing device 20 and a heart positioning device 30. A tissue retractor 40 provides access to the patient's heart through an incision [0102]. Heart stabilizing device 20 engages a surface of the

beating heart through suction imposed by a negative pressure source through a barb fitting "port" [0106]. It is noted that Paolitto teaches that multiple cannulae may be inserted for access to the thoracic cavity of the patient. For instance, one access cannula may be deployed to access the left pleural space, and another may be deployed to access the right plural space, thus allowing the use of multiple instruments within a first, second and third incision [0195]. A first coupling device and second coupling device are interpreted as cannulae 10 (one provided at two separate incisions) for accessing the thoracic cavity. Each cannula constitutes an elongated shaft (see Fig. 3A) having a proximal end and distal end, with a means for coupling with the heart stabilizing device and heart positioning device. Such a means is collet 182 of cannula 10 (or coupling device) for coupling with either a heart stabilizing device or the heart positioning device [0072].

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Regarding claims 30-34, the elongate shaft comprises at least one "flexible, rigidifying portion" interpreted as permanent weir 130. Permanent weir 130 extending around the perimeter of access cannula 10 (or "coupling device") is preferably rigid, but may also be made from a more flexible biocompatible polymeric material [0055]. A flexible arm 50 couples the first and second coupling devices with at least one stable object, such as surgical table 3 [0058]. The flexible arm enables re-positioning and reorientation of the cannula or "coupling device" [0064]. The first and second arms are further capable of being "rigidified" after coupling with a stable object via a clamp 570 [0058].

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Paolitto teaches a tissue retractor **40** having a frame (see Fig. 4) for movably holding two retractor blades **410** for retracting an incision. A lever **430** engages handle **461** to "crank" the retractor blades and thus retract the tissue for subsequent access to the patient's interior anatomy, in accordance with claims 37 and 39.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 38 is rejected under 35 U.S.C. 103(a) as being unpatentable over Paolitto et al. (U.S. Pub. No. 2003/0010346) in view of Daniel et al. (U.S. Pub. No. 2002/0068855). Paolitto discloses the invention as claimed, see rejection supra; however Paolitto does not expressly disclose a retracting blade having nerve protection means. Daniel et al. (hereinafter Daniel) teach a system and apparatus for manipulating a tissue structure within a body cavity, such as the heart, by retracting an outer portion enclosing the tissue. Regarding claim 38, Daniel teaches a retractor used with an atraumatic tissue-engaging surface 220, wherein the tissue-engaging surface 220 comprises a rigid plate and a biocompatible elastomeric cushion engaging the heart directly ([0065] and [0069]). Therefore, at the time of the invention it would have been obvious to one having ordinary skill in the art to have fitted a retracting device as taught by Paolitto with an elastomeric, biocompatible portion as suggested by Daniel such that

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the portion of the device engaging the tissue to be retracted imparts as little stress to the heart tissue as possible and protects the anatomy (including that of surrounding nerves) from damage as a result of the invasive nature of the surgical instruments utilized.

Claims 44 and 55 are rejected under 35 U.S.C. 103(a) as being unpatentable 6. over Paolitto et al. (U.S. Pub. No. 2003/0010346) in view of Houser et al. (U.S. Pub. No. 2003/0060685). Paolitto discloses the invention as claimed, see rejection supra; however Paolitto does not teach inflating a tissue contacting surface of the heart stabilizing or positioning member. Houser et al. (hereinafter Houser) teach a surgical instrument for contacting and stabilizing tissue of the heart. Regarding claims 44 and 55, Houser teaches a heart stabilizing or positioning member 100 having a tissue contacting surface 120. The contacting section may be configured to provide a variety of atraumatic surfaces, as well as ways to prevent slippage and invoke immobilization of the heart. Houser teaches a member or "port" to supply vacuum, a stream of fluid, or an inflatable medium to abut the contacting section against the surface of the heart [0113]. Furthermore, Houser teaches the introduction of an inflation medium through the same conduit for supplying vacuum, which immobilizes the heart (as in the instant application). Therefore, at the time of the invention it would have been obvious to one having ordinary skill in the art to have provided an inflation medium as suggested by Houser to a heart stabilizing or positioning member as taught by Paolitto such that minimal damage is imparted to the sensitive cardiac tissue.

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Christine D. Hopkins whose telephone number is (571)

272-9058. The examiner can normally be reached on Monday-Friday, 7 a.m.-3:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Charles Marmor, II can be reached on (571) 272-4730. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Christine D Hopkins

Examiner

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Charles A. Marmor, II

Supervisory Patent Examiner

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